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[DE/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH).

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(74) Common Representative: SYNGENTA PARTICIPATIONS AG; Intellectual Property, P.O. Box, CH-4002 Basel (CH).

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(71) Applicant (for all designated States except US): SYNGENTA PARTICIPATIONS AG [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RENOOLD, Peter [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). ZAMBACH, Werner [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). STEIGER, Arthur [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). HALL, Roger, Graham [GB/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). LOISELEUR, Olivier [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). TRAH, Stephan

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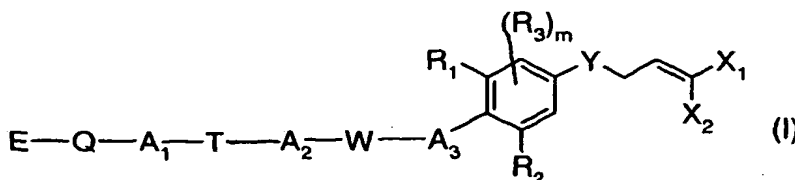
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(54) Title: 2,6-DIHALO-4-(3,3-DICHLORO-ALLYLOXY)-BENZYLALCOHOLE DERIVATIVES HAVING INSECTICIDAL AND ACARICIDAL PROPERTIES



(57) Abstract: Compounds of formula (I), wherein: A₁ is, for example, a bond or a C₁-C₆alkylene bridge; A₂ is, for example, a bond or C₁-C₆alkylene; A₃ is, for example, C₁-C₆alkylene; W is, for example, O or S; T is, for example, a bond, O, NH, NR₇, S, SO, SO₂, -C(=O)-O- or -O-C(=O)-; Q is a bond, O, NR₇, S, SO or SO₂; Y is O, NR₇, S, SO or

SO₂; X₁ and X₂ are, each independently of the other, fluorine, chlorine, bromine or iodine; R₁ is, for example, halogen, CN, nitro, C₁-C₆alkyl or C₁-C₆haloalkyl; R₂ and R₃ are, for example, H, halogen, CN, nitro or C₁-C₆alkyl; R₇ is, for example, H, C₁-C₆alkyl or C₁-C₃haloalkyl; m is 1 or 2; and E is C₁-C₆alkyl, C₁-C₆haloalkyl, aryl or heterocyclyl; and, where applicable, possible E/Z isomers, mixtures of E/Z isomers and/or tautomers thereof, in each case in free form or in salt form; a process for the preparation of and the use of those compounds; pesticidal compositions in which the active ingredient has been selected from those compounds, or an agrochemically usable salt thereof; a process for the preparation of and the use of those compositions; plant propagation material treated with those compositions; and a method of controlling pests are described.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C43/225 C07C255/54 C07C43/29 C07D215/58 C07D231/20
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SUZUKI, MASAYA: "Pyridinyl-containing chlorobenzenes and insecticides containing them" retrieved from STN Database accession no. 138:233426 CA XP002278545 the whole document & JP 2003 081942 A (SUMITOMO CHEMICAL CO., LTD., JAPAN) 19 March 2003 (2003-03-19)</p> <p style="text-align: center;">--- -/--</p>	1-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Bueno Torres, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KATSURADA, MANABU ET AL: "Preparation of dihalopropenyloxybenzene derivatives and pesticides containing the same as the active ingredient" retrieved from STN Database accession no. 135:46183 CA XP002278546 RN: 345200-99-9 abstract & WO 2001/044154 A (MITSUBISHI CHEMICAL CORPORATION, JAPAN) 21 June 2001 (2001-06-21)</p>	1-9
X	<p>WO 02/17712 A (FMC CORP) 7 March 2002 (2002-03-07) Compound 61 (pages 74 and 90)</p>	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14757

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2003081942	A	19-03-2003	NONE	
WO 2001044154	A	21-06-2001	AU 2023801 A WO 0144154 A1 JP 2001240583 A	25-06-2001 21-06-2001 04-09-2001
WO 0217712	A	07-03-2002	AU 8690901 A CZ 20030493 A3 EP 1334083 A2 WO 0217712 A2 US 2003207894 A1 US 2002183342 A1	13-03-2002 13-08-2003 13-08-2003 07-03-2002 06-11-2003 05-12-2002